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The statement of scope for this rule, SS 116-20, was approved by the Governor on August 13, 2020, published in Register No. 776A4 on August 24, 2020, and approved by the Natural Resources Board on October 28, 2020. This rule was approved by the Governor on insert date.

**ORDER OF THE STATE OF WISCONSIN NATURAL RESOURCES BOARD  
REPEALING, RENUMBERING, RENUMBERING AND AMENDING, AMENDING, REPEALING  
AND RECREATING AND CREATING RULES**

The Wisconsin Natural Resources Board proposes an order to **repeal** NR 438.04 (1) (Note), (2) (c), (e), (g), (h) and (6); to **renumber** NR 438.02 (1); to **renumber and amend** NR 438.03 (1) (b) Table 1; to **amend** NR 438 (title), 438.01 (2), NR 438.03 (1) (a) and (am) 1., NR 438.03 (1) (b), (c), (d), (2), (3), (4), (5) (a), (b), (c), and (6), 438.04 (1) and (2) (intro.), (b) and (f), 484.06 (4) Table 4D Row (a); to **repeal and recreate** NR 438.02 (2), 438.04 (2) (d), (3), (4), and (5); and to **create** 400.03 (4) (jp), NR 438.02 (1a), (1c), (1g), (1i), (1k), (1m), (1o), (1q), (1s), (1u), (3), and (4), NR 438.03 (1) (af), (am) 3. and (5) (a) (Note), relating to the incorporation of a PM<sub>2.5</sub> emissions reporting requirement, alignment of state and federal emissions reporting terminology, updates to reflect current emissions reporting procedure, and affecting small business.

**AM-31-19**

**Analysis Prepared by the Department of Natural Resources**

**1. Statute Interpreted:** Sections 285.11(11), 285.17, 299.15, Stats. The State Implementation Plan developed under s. 285.11(6), Stats., is revised.

**2. Statutory Authority:** Sections 285.11(11), 285.17, 299.15, Stats.

**3. Explanation of Agency Authority:** The Department of Natural Resources (the department) is required to promulgate by rule the classification of air contaminant sources which may cause or contribute to air pollution and require by rule those discharging air contaminants to report the manner used, amount used and amount discharged for each such contaminant. The department is also required to coordinate the reporting requirements to prevent duplication of reporting requirements.

**4. Related Statutes or Rules:** Section 299.15, Stats., requires the department to promulgate rules implementing reporting requirements for sources of air contaminants in the state. The proposed rule revisions correspond to the emissions reporting requirements contained in ch. NR 438, Wis. Adm. Code. Additional proposed revisions in s. NR 484.06 *Other government organizations* align ch. NR 484, Wis. Adm. Code, with proposed revisions in ch. NR 438, Wis. Adm. Code.

**5. Plain Language Analysis:** In 2015 the U.S. Environmental Protection Agency (EPA) finalized amendments to the Air Emissions Reporting Requirements (AERR) rule (40 CFR 51, subpart A, and 40 CFR 51.122). This rule updated requirements for state and local agencies to collect and submit emissions data to the EPA. Currently, some inconsistencies exist between Wisconsin's air emissions reporting requirements codified in ch. NR 438, Wis. Adm. Code, and the AERR rule. The department is proposing to revise ch. NR 438, Wis. Adm. Code, to meet federal requirements in the AERR rule. Updating ch. NR 438, Wis. Adm. Code, will ensure the state has a legally sufficient state implementation plan (SIP), required under Section 110(a)(2) of the federal Clean Air Act (CAA), and maintain Wisconsin's approval under Title I of the CAA.

The department is proposing to add an emissions reporting requirement for sources that directly emit particulate matter with an aerodynamic diameter of equal to or less than 2.5 µm (PM<sub>2.5</sub>), which ensures

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compliance with the AERR rule and maintains an approvable SIP. Related changes include specifying that state reporting requirements for particulate matter apply to primary emissions, where primary emissions are directly emitted to the atmosphere, rather than particulate matter formed through atmospheric chemical reactions ('secondary' emissions). Further, primary particulate emissions are being distinguished from filterable and condensable particulate emissions, which sum to equal the primary particulate emissions. Emissions reporting requirements are included for these filterable and condensable components of primary PM<sub>2.5</sub> and primary particulate matter with an aerodynamic diameter of equal to or less than 10 µm (PM<sub>10</sub>). The proposed rule also addresses a deficiency in ch. NR 438, Wis. Adm. Code, identified by EPA which requires Type A sources under subpart A of 40 CFR 51 to report annual emissions of all criteria air pollutants and ammonia if the sources emit in excess of any of the thresholds listed in Table 1 of Appendix A of subpart A under 40 CFR 51.30. These proposed changes will ensure ch. NR 438, Wis. Adm. Code, meets federal requirements in the AERR rule (40 CFR 51, subpart A).

Additionally, the department is proposing to make other revisions to ch. NR 438, Wis. Adm. Code, to (1) align state code language with federal emissions reporting terminology, (2) revise outdated ch. NR 438, Wis. Adm. Code, language and make corresponding updates to ch. NR 484, Wis. Adm. Code, to reflect the department's current emissions inventory process, and (3) create a list of emission units, operations or activities that a facility may exclude from the annual emission inventory. These proposed changes will clarify and modernize the emissions reporting rule language in ch. NR 438, Wis. Adm. Code. The specific proposed rule changes are described below.

#### Alignment of state and federal emissions reporting requirements

SECTIONS 8 and 13 require the owner or operator of a facility to report annual primary PM, primary PM<sub>2.5</sub>, primary PM<sub>10</sub>, filterable PM<sub>2.5</sub>, filterable PM<sub>10</sub>, and condensable PM emissions if the facility's emissions exceed the reporting threshold in ch. NR 438, Table 1. Because there are only a few proposed changes to Table 1 in SECTION 13, proposed Table 1 rule language is identified with blue font to facilitate review. These proposed changes may be found on pages 26, 27, and 28 of this document.

SECTION 9 addresses a deficiency identified by EPA which requires Type A sources under subpart A of 40 CFR 51 to report annual emissions of all criteria air pollutants and ammonia.

#### Alignment of state and federal emissions reporting terminology

SECTIONS 4-7 renumber or incorporate definitions for terms related to particulate matter and emissions reporting that only apply in ch. NR 438. Although several terms defined in SECTION 5 are currently defined in ch. NR 400, the proposed SECTION 5 definitions are being incorporated to ensure consistency with the definitions in the AERR rule.

#### Revision to outdated state code language

SECTIONS 1-3, 10, and 14-27 align emissions reporting rule language to reflect the department's current emissions inventory process, and reference the specific information requested by the department's web-based air emissions inventory reporting program.

SECTIONS 6, 14, and 27 remove cross references between ss. NR 438.02 (2) and 438.03 (5) (a) and EPA's outdated FIRE emissions factor database (s. NR 484.06 (4) (a)).

#### Addition of emissions reporting exemption list

SECTION 11 creates a list of emission units, operations or activities that a facility may exclude from the annual emission inventory reported to the department. Sources are not required to quantify emissions from the proposed emissions reporting exclusion list, which are units, operations, or

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activities that the department has determined are difficult to quantify and emit de minimis amounts of air contaminants.

**6. Summary of, and Comparison with, Existing or Proposed Federal Statutes and Regulations:**

The revisions to ch. NR 438, Wis. Adm. Code, are being proposed to meet federal requirements in the AERR rule (40 CFR 51, subpart A, and 40 CFR 51.122). This federal rule requires state and local agencies to collect and submit emissions data to the EPA. This rulemaking will satisfy federal emissions reporting requirements and resolve inconsistencies between state and federal emissions inventory reporting.

**7. Summary of Comments Received on the Statement of Scope and How the Agency Took Those Comments into Account in Drafting the Proposed Rule:** A preliminary public hearing was requested by the Joint Committee for the Review of Administrative Rules on August 27, 2020 and was held on October 1, 2020. No public comments were received during the preliminary public hearing and comment period on the statement of scope of the proposed rule.

**8. Comparison with Similar Rules in Adjacent States:** The States of Illinois, Iowa, Michigan, and Minnesota have incorporated PM<sub>2.5</sub> emissions reporting requirements into their administrative codes.

**9. Summary of Factual Data and Analytical Methodologies Used and How Any Related Findings Support the Regulatory Approach Chosen:** In 2008, EPA promulgated the AERR rule (40 CFR part 51, subpart A) to coordinate and streamline emissions inventory reporting requirements with existing requirements of the CAA and 1990 Amendments. Under the AERR rule, states and local air pollution control agencies are required to submit emissions inventories for criteria pollutants to EPA. The EPA uses these submittals to build the national inventory of air pollutant emissions (National Emissions Inventory; NEI). A comprehensive inventory updated at regular intervals is essential to allow EPA to fulfill its mandate to monitor and plan for the attainment and maintenance of the national ambient air quality standards established for criteria pollutants.

In 2015, EPA finalized amendments to the AERR rule (40 CFR 51, subpart A, and 40 CFR 51.122). The rule's updated requirements improved consistency and clarity with other federal rules and better reflects current inventory technologies and practices. The department must ensure that state reporting requirements align with those established in federal code in order to keep Wisconsin's SIP current and maintain Wisconsin approval under Title I of the CAA. Section 285.14 (1), Stats., requires SIP submittals resulting in regulatory requirements to be promulgated by rule. There are no policy alternatives available for the proposed rules because the proposed actions are required under state and federal law.

Information and materials developed by EPA in support of the AERR rule amendments can be found on EPA's website at <https://www.epa.gov/air-emissions-inventories/air-emissions-reporting-requirements-aerr#additional-resources> and in the regulatory docket (EPA-HQ-OAR-2004-0489) associated with the 2015 amended rule (80 FR 8787). This information is applicable also to the adoption of the amended AERR requirements into the Wisconsin Administrative Code.

**10. Analysis and Supporting Documents Used to Determine the Effect on Small Business or in Preparation of an Economic Impact Report:** The department estimates that the economic impact of implementing the revised reporting requirements in Wisconsin will be minimal (\$0-\$50,000). The proposed changes will not involve an emission fee increase for sources and will not require sources to install new emissions monitoring equipment or reporting systems. The proposed rule will result in a small administrative impact to sources in the form of time required to report and certify annual PM<sub>2.5</sub> emissions if a source's emissions exceed the reporting threshold or to report and certify all criteria air pollutant and

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ammonia emissions for a Type A source under subpart A of 40 CFR 51.

To minimize administrative time associated with annual emissions reporting, the department's web-based air emissions inventory reporting program provides information (i.e., emission factors) and an emissions calculator, which the owner or operator of a facility can use to estimate emissions. The program currently includes emission factors for sources to calculate their filterable and condensable PM<sub>2.5</sub> emissions. Furthermore, the department expects that sources required to report PM<sub>2.5</sub> emissions under the proposed rule are already familiar with the emissions calculations, since many of these sources likely already report other pollutant emissions under current ch. NR 438, Wis. Adm. Code, requirements.

In addition, the department is providing a proposed list of excluded units, operations and activities to reduce the emissions reporting burden on sources. The department expects the proposed changes will improve the clarity of Wisconsin's emissions reporting requirements by synchronizing the emissions reporting language between ch. NR 438, the department's web-based air emissions inventory reporting program, and the federal AERR rule.

The department does not anticipate that local governments, utility rate payers, public entities, or the state's economy will be economically impacted by the implementation of the proposed rules. The proposed rules will not require additional state staff to implement or affect state revenues.

**11. Effect on Small Business (initial regulatory flexibility analysis):** The AERR rule amendments state that the updated reporting requirements "will not have a significant economic impact on a substantial number of small entities under the RFA [Regulatory Flexibility Act]. This action will not impose any new requirements on small entities. This action corrects and clarifies emissions reporting requirements and provides states with additional flexibility in how they collect and report their emissions data, thereby reducing overall collection and reporting burdens and their associated costs." (80 FR 8794).

The department expects that few, if any, small businesses will be required to report PM<sub>2.5</sub> emissions under the proposed rule since source applicability is determined by a five ton per year emission threshold. If applicable, the proposed rule changes would have a small administrative impact on the small businesses; there would be no economic impact. Furthermore, the department expects that if there are any small businesses required to report PM<sub>2.5</sub> emissions under the proposed rule that they are already familiar with the emissions calculations, since these sources likely already report other pollutant emissions under current ch. NR 438, Wis. Adm. Code, requirements. As mentioned in #10 above, the department has taken steps to minimize administrative time associated with annual emissions reporting, including providing an emissions calculator directly on the department's web-based air emissions inventory reporting program and providing a list of emission units, operations and activities that a facility may exclude from the annual emission inventory.

**12. Agency Contact Person:** Olivia Salmon, Bureau of Air Management, Wisconsin Department of Natural Resources PO Box 7921, Madison, WI 53703; (608) 630-5264; OliviaE.Salmon@Wisconsin.gov.

**13. Place where comments are to be submitted and deadline for submission:**

Written comments may be submitted at the public hearings, by regular mail, or email to:

Olivia Salmon – AM/7  
Bureau of Air Management  
Wisconsin Department of Natural Resources  
PO Box 7921  
Madison, WI 53703  
OliviaE.Salmon@wisconsin.gov

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Comments may be submitted to the department contact person listed above or to DNRAdministrativeRulesComments@wisconsin.gov until the deadline given in the upcoming notice of public hearing. The notice of public hearing and deadline for submitting comments will be published in the Wisconsin Administrative Register and on the department's website, at <https://dnr.wi.gov/calendar/hearings/>. Comments may also be submitted through the Wisconsin Administrative Rules Website at <https://docs.legis.wisconsin.gov/code/chr/active>.

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## RULE TEXT

**SECTION 1. NR 400.03 (4) (jp) is created to read:**

**NR 400.03 (4) (jp)** “NAICS” — North American Industry Classification System

**SECTION 2. NR 438 (title) is amended to read:**

**NR 438 (title)** AIR CONTAMINANT ~~EMISSION~~EMISSIONS INVENTORY

REPORTING REQUIREMENTS.

**SECTION 3. NR 438.01 (2) is amended to read:**

**NR 438.01 (2) PURPOSE.** The purpose of this chapter is to establish, pursuant to ss. 285.11, 285.13, 285.17, and 299.15 (1) and (2), Stats., requirements for submission of ~~reports~~ emissions inventories for owners or operators of air contaminant sources.

**SECTION 4. NR 438.02 (1) is renumbered (1e).**

**SECTION 5. NR 438.02 (1a), (1c), (1g), (1i), (1k), (1m), (1o), (1q), (1s), and (1u) are created to read:**

**NR 438.02 (1a)** “Condensable PM” means a material that is vapor phase at stack conditions but that condenses or reacts upon cooling and dilution in the ambient air to form solid or liquid PM immediately after discharge from the stack.

Note: Condensable PM, if present from a source, is typically in the PM<sub>2.5</sub> size fraction and, therefore, all of it is a component of both primary PM<sub>2.5</sub> and primary PM<sub>10</sub>.

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**(1c)** “Device” means the physical equipment or equipment line where a process occurs.

**(1g)** “Filterable PM” means a particle that has an aerodynamic diameter equal to or less than 100 micrometers that is directly emitted by a source as a solid or liquid at stack or release conditions and captured on the filter of a stack test train.

**(1i)** “Filterable PM<sub>2.5</sub>” means a particle that has an aerodynamic diameter equal to or less than 2.5 micrometers that is directly emitted by a source as a solid or liquid at stack or release conditions and captured on the filter of a stack test train.

**(1k)** “Filterable PM<sub>10</sub>” means a particle that has an aerodynamic diameter equal to or less than 10 micrometers that is directly emitted by a source as a solid or liquid at stack or release conditions and captured on the filter of a stack test train.

**(1m)** “Primary PM” means the sum of filterable PM and condensable PM.

**(1o)** “Primary PM<sub>2.5</sub>” means the sum of filterable PM<sub>2.5</sub> and condensable PM<sub>2.5</sub>.

**(1q)** “Primary PM<sub>10</sub>” means the sum of filterable PM<sub>10</sub> and condensable PM<sub>10</sub>.

**(1s)** “Process” means an activity occurring at a device that generates emissions, controls emissions, or discharges emissions.

Note: Examples of processes include combustion, coating, controlling, crushing, or discharging.

**(1u)** “Process type code” means a brief descriptor of the process type.

**SECTION 6. NR 438.02 (2) is repealed and recreated to read:**

**NR 438.02 (2)** “Source classification code” means a process-level code that describes the equipment or operation that is emitting a pollutant.

Note: Source classification codes are available as set forth by EPA’s Emissions Inventory System, which is an information system for storing all current and historical emissions inventory data.

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**SECTION 7. NR 438.02 (3), and (4) are created to read:**

**NR 438.02 (3)** “Unit device” means the physical equipment or equipment line where a process occurs.

Note: Examples of unit devices include boilers, coating lines, baghouses, and stacks.

**(4)** “Unit device type code” means a brief descriptor of the unit device type.

**SECTION 8. NR 438.03 (1) (a) is amended to read:**

**NR 438.03 Required ~~emission inventory reports~~ emissions inventories. (1)**

REPORTABLE AIR CONTAMINANTS AND LEVELS. (a) Except as provided ~~in~~under par. (am), any person owning or operating a facility that emits an air contaminant in quantities above applicable reporting levels, except indirect sources of air pollution, shall annually submit to the department an ~~emission~~emissions inventory ~~report~~ of annual, actual emissions or, for primary particulate matter, primary PM<sub>10</sub>, primary PM<sub>2.5</sub>, sulfur dioxide, nitrogen oxides, carbon monoxide and volatile organic compounds, throughput information sufficient for the department to calculate its annual, actual emissions. The reportable air contaminants and applicable reporting levels are listed in ch. NR 438, Table 1.

**SECTION 9. NR 438.03 (1) (af) is created to read:**

**NR 438.03 (1) (af)** The owner or operator of a facility with potential to emit equal to or greater than any emission rate listed in ch. NR 438, Table 2, shall annually submit to the department an emissions inventory for all of the following pollutants regardless of emissions amount:

1. Sulfur dioxide.
2. Nitrogen oxides.
3. Carbon monoxide.
4. Volatile organic compounds.
5. Primary PM<sub>10</sub>.
6. Primary PM<sub>2.5</sub>.

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7. Ammonia.

**Table 2  
Pollutants and Potential to Emit**

1. Sulfur dioxide: 2500 tpy
2. Nitrogen oxides: 2500 tpy
3. Carbon monoxide: 2500 tpy
4. Volatile organic compounds: 250 tpy
5. Primary PM<sub>10</sub>: 250 tpy
6. Primary PM<sub>2.5</sub>: 250 tpy
7. Ammonia: 250 tpy

**SECTION 10. NR 438.03 (1) (am) 1. is amended to read:**

(am) 1. The owner or operator of a facility described by ~~a standard industrial classification~~ an SIC code listed in Table D of s. NR 445.11, or that has annual actual emissions of less than 5 tons of particulate matter and less than 3 tons of volatile organic compounds, may limit the information on hazardous air contaminants included in the annual ~~emission~~emissions inventory ~~report~~ to those contaminants identified under s. NR 445.11 (1) (a) or (b).

**SECTION 11. NR 438.03 (1) (am) 3. is created to read:**

**NR 438.03 (1) (am) 3.** The owner or operator of a facility may exclude from the annual emissions inventory, emissions from any of the following emissions units, operations, or activities:

- a. Maintenance of grounds, equipment, and buildings, including lawn care, pest control, grinding, cutting, welding, painting, woodworking, general repairs, and cleaning, but not including use of organic compounds as clean-up solvents.
- b. Boiler, turbine, generator, heating, and air conditioning maintenance.
- c. Pollution control equipment maintenance.
- d. Fire control equipment.

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- e. Janitorial activities.
- f. Office activities.
- g. Convenience water heating.
- h. Convenience space heating units with combined heat input capacity of less than 5 million Btu per hour that burn gaseous fuels or liquid fuels.
- i. Fuel oil storage tanks with a combined capacity of 10,000 gallons or less.
- j. Stockpiled contaminated soils.
- k. Demineralization and oxygen scavenging of water for boilers.
- l. Purging of natural gas lines.

**SECTION 12. NR 438.03 (1) (b) is amended to read:**

**NR 438.03 (1) (b)** When preparing an ~~emission~~ emissions inventory report, the owner or operator of a facility may rely on information in an approved material safety data sheet. Trace contaminants need not be reported if they constitute less than 1% ~~percent~~ (10,000 parts per million) of the material, or 0.1% ~~percent~~ (1,000 parts per million) of the material if the air contaminant is listed with a control requirement ~~in~~under column (i) of Table A, B or C ~~or~~of s. NR 445.07, unless a hazardous air contaminant is formed in processing the material.

**SECTION 13. NR 438.03 (1) (b) Table 1 is renumbered NR 438 Table 1 and amended to read [Note to LRB: Please move Table 1 to end of chapter]:**

**Table 1**  
**Reporting Levels for Calendar Years 2004 and Later**

Air Contaminant Name	CAS Number <sup>1</sup>	Reporting Level (lbs/yr)
Acetaldehyde.....	75-07-0	404
Acetamide .....	60-35-5	6,000

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Acetic acid.....	64-19-7	
Acetic anhydride .....	108-24-7	5,774
Acetone .....	67-64-1	4,912
Acetonitrile.....	75-05-8	100,000
Acetophenone.....	98-86-2	6,000
2-Acetylaminofluorene.....	53-96-3	6,000
Acrolein.....	107-02-8	6,000
Acrylamide.....	79-06-1	75
Acrylic acid .....	79-10-7	0.683
Acrylonitrile.....	107-13-1	88.8
Adipic acid .....	124-04-9	13.1
Adiponitrile .....	111-69-3	1,176
Adriamycin.....	23214-92-8	2,080
Aflatoxins.....	1402-68-2	1.22
Aldrin .....	309-00-2	58.8
Allyl alcohol.....	107-18-6	279
Allyl chloride .....	107-05-1	736
Allyl glycidyl ether .....	106-92-3	1,098
Aluminum alkyls and soluble salts, as Al.....	7429-90-5 <sup>2</sup>	471
Aluminum pyro powders, as Al.....	7429-90-5 <sup>2</sup>	1,176
o-Aminoazotoluene (2-Aminoazotoluene) .....	97-56-3	0.808
4-Aminobiphenyl .....	92-67-1	0.148
Amitrole .....	61-82-5	3.29
<sup>3</sup> Ammonia .....	7664-41-7	4,097
Ammonium perfluorooctanoate.....	3825-26-1	2.35
Aniline.....	62-53-3	1,792
o-Anisidine and o-anisidine hydrochloride (mixtures and isomers) .....	29191-52-4 <sup>2</sup>	22.2
Antimony & compounds, as Sb.....	7440-36-0 <sup>2</sup>	118
Antimony trioxide .....	1309-64-4	17.8

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ANTU .....	86-88-4	
Arsenic, elemental and inorganic compounds, as As .....	7440-38-2 <sup>2</sup>	70.6
<sup>3</sup> Arsine.....	7784-42-1	0.207
Asbestos, all forms .....	1332-21-4 <sup>2</sup>	4.44
Atrazine.....	1912-24-9	1.22
Azathioprine.....	446-86-6	1,176
Azinphos-methyl .....	86-50-0	1.74
Barium, soluble compounds, as Ba .....	7440-39-3 <sup>2</sup>	47.1
Benomyl.....	17804-35-2	118
Benz(a)anthracene.....	56-55-3	2,353
Benzene.....	71-43-2	8.08
Benzidine .....	92-87-5	114
Benzo(a)phenanthrene (Chrysene) .....	218-01-9	0.0133
Benzo(j,k)fluorene .....	206-44-0	12
Benzo(b)fluoranthene.....	205-99-2	12
Benzo(j)phenanthrene .....	205-82-3	1.22
Benzo(k)fluoranthene.....	207-08-9	1.22
Benzo(a)pyrene .....	50-32-8	0.808
Benzotrichloride.....	98-07-7	1.22
Benzoyl chloride .....	98-88-4	940
Benzoyl peroxide .....	94-36-0	1,176
Benzyl acetate .....	140-11-4	6,000
Benzyl chloride .....	100-44-7	1,218
Beryllium and beryllium compounds, as Be.....	7440-41-7 <sup>2</sup>	0.37
Biphenyl.....	92-52-4	297
Bischloroethyl nitrosourea .....	154-93-8	1.22
N,N-Bis (2-chloroethyl)-2-naphthylamine (Chlornaphazine).....	494-03-1	1.22
Bis(chloromethyl) ether (BCME) and technical grade .....	542-88-1	1.22
Bis(2-dimethylaminoethyl) ether (DMAEE) .....	3033-62-3	77.1

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Bismuth telluride, as Bi <sub>2</sub> Te <sub>3</sub> : Se-doped.....	1304-82-1	
Borates, tetra, sodium salts, decahydrate.....	1303-96-4 <sup>2</sup>	1,176
Borates, tetra, sodium salts, pentahydrate .....	1303-96-4 <sup>2</sup>	1,176
Boron tribromide .....		235
	10294-33-4	
<sup>3</sup> Boron trifluoride .....	7637-07-2	3,352
Bromacil.....	314-40-9	907
<sup>3</sup> Bromine .....	7726-95-6	2,353
<sup>3</sup> Bromine pentafluoride .....	7789-30-2	154
Bromodichloromethane.....	75-27-4	168
Bromoform.....	75-25-2	24
1,3-Butadiene .....	106-99-0	1,216
sec-Butanol.....	78-92-2	3.17
tert-Butanol .....	75-65-0	100,000
<sup>4</sup> 2-Butoxyethanol (Ethylene glycol monobutyl ether; EGBE; Butyl cellosolve).....	111-76-2	100,000
n-Butyl alcohol (n-Butanol) .....	71-36-3	6,000
n-Butyl acetate .....	123-86-4	6,000
t-Butyl acetate .....	540-88-5	100,000
n-Butyl acrylate .....	141-32-2	see footnote 7
n-Butylamine.....	109-73-9	2,467
Butylated hydroxyanisole (BHA).....	25013-16-5	4,892
tert-Butyl chromate, as Cr .....	1189-85-1	6,000
n-Butyl glycidyl ether (BGE) .....	2426-08-6	0.074
n-Butyl lactate .....	138-22-7	6,000
o-sec-Butylphenol .....	89-72-5	6,000
p-tert-Butyltoluene .....	98-51-1	6,000
C.I. Basic Red 9 monohydrochloride .....	569-61-9	1,426
Cadmium and cadmium compounds, as Cd .....	7440-43-9 <sup>2</sup>	12.5
Calcium cyanamide .....	156-62-7	0.494
Calcium hydroxide .....	1305-62-0	118
Calcium oxide .....	1305-78-8	1,176
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Camphor (synthetic).....	76-22-2	
Caprolactam (aerosol and vapor).....	105-60-2	2,930
Captfol.....	2425-06-1	5,444
Captan .....	133-06-2	23.5
Carbaryl.....	63-25-2	1,176
Carbofuran .....	1563-66-2	1,176
Carbon dioxide.....	124-38-9	23.5
Carbon monoxide .....	630-08-0	100,000 tons
Carbon black .....	1333-86-4	10,000
Carbon disulfide .....	75-15-0	823
Carbon tetrabromide.....	558-13-4	6,000
Carbon tetrachloride .....	56-23-5	319
Carbonyl fluoride .....	353-50-4	59.2
Carbonyl sulfide.....	463-58-1	1,270
Catechol (Pyrocatechol) .....	120-80-9	6,000
Refractory Ceramic Fibers (respirable size) .....	2	5,298
Cesium hydroxide .....		1.22
Chloramben.....	21351-79-1	471
Chlorambucil.....	133-90-4	6,000
Chlordane .....	305-03-3	0.00683
Chlorendic acid .....	57-74-9	118
Chlorinated camphene (Toxaphene).....	115-28-6	34.2
Chlorinated diphenyl oxide .....	8001-35-2	2.78
Chlorinated paraffins (C12; 60% chlorine) .....	55720-99-5	118
<sup>3</sup> Chlorine .....	108171-26-2	35.5
<sup>3</sup> Chlorine dioxide .....	7782-50-5	341
<sup>3</sup> Chlorine trifluoride .....	10049-04-4	64.9
Chloroacetic acid.....	7790-91-2	124
2-Chloroacetophenone .....	79-11-8	6,000
	532-27-4	74.4

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Chlorobenzene (Monochlorobenzene) .....	108-90-7	
Chlorobenzilate .....	510-15-6	6,000
o- Chlorobenzylidene malononitrile .....	2698-41-1	6,000
Chlorobromomethane .....	74-97-5	126
<sup>3</sup> 1-Chloro-1, 1-difluoroethane (Hydrochlorofluorocarbon-142b; HCFC-142b; R-142b) ..	75-68-3	100,000
<sup>3</sup> Chlorodifluoromethane (Hydrochlorofluorocarbon-22; HCFC-22; R-22) .....	75-45-6	6,000
1-(2-Chloroethyl)-3-cyclohexyl-1-nitrosourea (CCNU) .....	13010-47-4	6,000
<sup>3</sup> Chlorofluorocarbon-11 (CFC-11; R-11; Trichlorofluoromethane) .....	75-69-4	1.22
<sup>3</sup> Chlorofluorocarbon-111 (CFC-111) .....	954-56-3	6,000
<sup>3</sup> Chlorofluorocarbon-112 (CFC-112) .....	76-12-0	6,000
<sup>3</sup> Chlorofluorocarbon-113 (CFC-113; R-113; Trichlorotrifluoroethane) .....	76-13-1	6,000
<sup>3</sup> Chlorofluorocarbon-114 (CFC-114; R-114; Dichlorotetrafluoroethane) .....	76-14-2	6,000
<sup>3</sup> Chlorofluorocarbon-115 (CFC-115; R-115; Monochloropentafluoroethane) .....	76-15-3	6,000
<sup>3</sup> Chlorofluorocarbon-12 (CFC-12; R-12; Dichlorodifluoromethane) .....	75-71-8	6,000
<sup>3</sup> Chlorofluorocarbon-13 (CFC-13; R-13; Chlorotrifluoromethane) .....	75-72-9	6,000
<sup>3</sup> Chlorofluorocarbon-211 (CFC-211; R-211) .....	422-78-6	6,000
<sup>3</sup> Chlorofluorocarbon-212 (CFC-212; R-212) .....	3182-26-1	6,000
<sup>3</sup> Chlorofluorocarbon-213 (CFC-213; R-213) .....	165-97-7	6,000
<sup>3</sup> Chlorofluorocarbon-214 (CFC-214; R-214) .....	29255-31-0	6,000
<sup>3</sup> Chlorofluorocarbon-215 (CFC-215; R-215) .....	4259-43-2	6,000
<sup>3</sup> Chlorofluorocarbon-216 (CFC-216; R-216) .....	661-97-2	6,000
<sup>3</sup> Chlorofluorocarbon-217 (CFC-217; R-217) .....	422-86-6	6,000
Chloroform .....	67-66-3	38.6
Chloromethyl methyl ether (CMME) .....	107-30-2	1.22
1-Chloro-1-nitropropane .....	600-25-9	2,378
Chloropicrin (Trichloronitromethane) .....	76-06-2	158
$\beta$ -Chloroprene .....	126-99-8	1.22
o-Chlorostyrene .....	2039-87-4	6,000
o-Chlorotoluene .....	95-49-8	6,000

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Chlorpyrifos .....	2921-88-2	
Chromium (metal) and compounds other than chromium (VI) ...	7440-47-3 <sup>2</sup>	47.1
Chromium (VI): Chromic acid mists and dissolved Cr (VI) aerosols, as Cr .....	7440-47-3 <sup>2</sup>	118
Chromium (VI) compounds and particulates .....	7440-47-3 <sup>2</sup>	0.074
Chromyl chloride, as Cr .....	14977-61-8	0.074
Cobalt, elemental, and inorganic compounds, as Co .....	7440-48-4 <sup>2</sup>	4.71
<sup>3</sup> Coke oven emissions.....	<sup>2</sup>	1.43
Copper and compounds, fume, as Cu .....	7440-50-8 <sup>2</sup>	47.1
Copper and compounds, dust & mists, as Cu .....	7440-50-8 <sup>2</sup>	235
p-Cresidine .....	120-71-8	20.7
Cresol (mixtures and isomers).....	1319-77-3 <sup>2</sup>	5,203
Crotonaldehyde .....	4170-30-3 <sup>2</sup>	281
Crufomate.....	299-86-5	1,176
Cumene (Isopropyl benzene).....	98-82-8	6,000
Cyanamide .....	420-04-2	471
Cyanides, (inorganics), as CN .....	143-33-9 <sup>2</sup>	1,635
Cyanogen .....	460-19-5	5,008
Cyanogen chloride .....	506-77-4	247
Cyclohexanol .....	108-93-0	6,000
Cyclohexanone .....	108-94-1	6,000
Cyclohexylamine.....	108-91-8	6,000
Cyclonite .....	121-82-4	118
Cyclopentadiene.....	542-92-7	6,000
Cyclophosphamide.....	50-18-0	5.23
Cyhexatin .....	13121-70-5	1,176
2,4-D, salts and esters.....	94-75-7	6,000
Dacarbazine.....	4342-03-4	0.0635
DDE .....	72-55-9	6,000
Demeton .....	8065-48-3	24.9

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Diacetone alcohol.....	123-42-2	
2,4-Diaminoanisole sulfate.....	39156-41-7	6,000
2,4-Diaminotoluene (Toluene-2,4-diamine).....	95-80-7 <sup>2</sup>	240
Diazinon.....	333-41-5	0.808
Diazomethane.....	334-88-3	23.5
Dibenz(a,h)acridine.....	226-36-8	80.9
Dibenz(a,j)acridine.....	224-42-0	8.08
Dibenz(a,h)anthracene.....	53-70-3	8.08
7H-Dibenzo(c,g)carbazole .....	194-59-2	0.74
Dibenzofurans .....	132-64-9 <sup>2</sup>	0.808
Dibenzo(a,e)pyrene .....	192-65-4	6,000
Dibenzo(a,h)pyrene .....	189-64-0	0.0808
Dibenzo(a,i)pyrene .....	189-55-9	0.0808
Dibenzo(a,l)pyrene .....	191-30-0	0.0808
<sup>3</sup> Diborane .....	19287-45-7	26.6
1,2-Dibromo-3-chloropropane (DBCP).....	96-12-8	0.468
1,2-Dibromoethane (Ethylene Dibromide; EDB).....	106-93-4	4.04
2-N-Dibutylaminoethanol .....	102-81-8	834
Dibutylphenyl phosphate.....	2528-36-1	826
Dibutyl phthalate (Di-n-butyl phthalate) .....	84-74-2	1,176
o-Dichlorobenzene (1,2-Dichlorobenzene) .....	95-50-1	6,000
p-Dichlorobenzene (1,4-Dichlorobenzene) .....	106-46-7	80.8
3,3'-Dichlorobenzidine .....	91-94-1	2.61
1,3-Dichloro-5,5-dimethyl hydantoin.....	118-52-5	47.1
Dichlorodiphenyltrichloroethane (DDT) .....	50-29-3	9.16
1,1-Dichloroethane (Ethylidene dichloride) .....	75-34-3	6,000
1,2-Dichloroethane (Ethylene dichloride; EDC) .....	107-06-2	34.2
Dichloroethyl ether (Bis(2-chloroethyl)ether) .....	111-44-4	6,000
1,2-Dichloroethylene.....	540-59-0	6,000

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1,1-Dichloro-1-nitroethane.....	594-72-9	
1,3-Dichloropropene .....	542-75-6	2,771
2,2-Dichloropropionic acid .....	75-99-0	222
Dichlorvos.....	62-73-7	1,176
Dicrotophos.....	141-66-2	44.4
Dicyclopentadiene.....	77-73-6	58.8
Dieldrin .....	60-57-1	6,000
Diethanolamine .....	111-42-2	58.8
Diethylamine.....	109-89-7	471
2-Diethylaminoethanol.....	100-37-8	3,519
Diethylene triamine .....	111-40-0	2,255
Diethyl hexyl phthalate (Bis(2-ethyl hexyl) phthalate; Di-sec-octyl phthalate; DEHP)....	117-81-7	993
Diethyl phthalate .....	84-66-2	1,176
Diethylstilbestrol (DES).....	56-53-1	1,176
Diethyl sulfate .....	64-67-5	0.00888
Diethyl ketone .....	96-22-0	1.22
1,1-Difluoroethane .....	75-37-6	100,000
Diglycidyl ether (DGE).....	2238-07-5	6,000
Diglycidyl resorcinol ether.....	101-90-6	125
1,8-Dihydroxyanthroquinone (Danthon).....	117-10-2	1.81
Diisobutyl ketone .....	108-83-8	40.4
Diisopropylamine .....	108-18-9	6,000
N,N-Dimethyl acetamide.....	127-19-5	4,869
Dimethylamine.....	124-40-3	6,000
4-Dimethylaminoazobenzene .....	60-11-7	2,169
Dimethylaniline (N,N-Dimethylaniline) .....	121-69-7	0.683
3,3'-Dimethylbenzidine (o-Tolidine) .....	119-93-7	5,830
Dimethyl carbamoyl chloride.....	79-44-7	1.22
Dimethylethoxysilane.....	14857-34-2	0.24
		501

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N,N-Dimethylformamide .....	68-12-2	
1,1-Dimethylhydrazine.....	57-14-7	2,665
Dimethylphthalate .....	131-11-3	1.22
Dimethyl sulfate .....	77-78-1	1,176
Dinitolmide .....	148-01-6	1.22
Dinitrobenzene (mixtures and isomers).....	528-29-0 <sup>2</sup>	1,176
Dinitro-o-cresol (4,6-Dinitro-o-cresol).....	534-52-1	243
2,4-Dinitropheno1 .....	51-28-5	47.1
Dinitrotoluene (mixtures and isomers).....	25321-14-6 <sup>2</sup>	6,000
n-Dioctyl phthalate.....	117-84-0	47.1
1,4-Dioxane (1,4-Diethylene oxide).....	123-91-1	6,000
Dioxathion.....	78-34-2	115
Diquat, respirable dust (various compounds) (Diquat dibromide).....	2764-72-9 <sup>2</sup>	47.1
Diquat, total dust (various compounds) (Diquat dibromide) .....	2764-72-9 <sup>2</sup>	23.5
Direct black 38 (Benzidine-based dye) .....	1937-37-7	118
Direct blue 6 (Benzidine-based dye) .....	2602-46-2	0.423
Disperse Blue 1 .....	2475-45-8	0.423
Disulfiram .....	97-77-8	683
Disulfoton.....	298-04-4	471
Divinyl benzene (mixtures and isomers) .....	1321-74-0 <sup>2</sup>	23.5
Endosulfan .....	115-29-7	6,000
Endrin.....	72-20-8	23.5
Epichlorohydrin (1-Chloro-2,3-epoxypropane).....	106-89-8	23.5
EPN .....	2104-64-5	88.8
1,2-Epoxybutane (1,2-Butylene oxide) .....	106-88-7	23.5
Ethanolamine .....	141-43-5	1,777
Ethion.....	563-12-2	1,763
<sup>4</sup> 2-Ethoxyethanol (Ethylene glycol monoethyl ether; EGEE; Cellosolve) .....	110-80-5	94.1
<sup>4</sup> 2-Ethoxyethyl acetate (Ethylene glycol monoethyl ether acetate; EGEEA; Cellosolve acetate) .....	111-15-9	4,336
		6,000

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Ethyl acetate .....	141-78-6	
Ethyl acrylate .....	140-88-5	100,000
Ethylamine (Ethanamine).....	75-04-7	4,817
Ethyl amy1 ketone .....	541-85-5	2,169
Ethyl benzene.....	100-41-4	6,000
Ethyl bromide.....	74-96-4	6,000
Ethyl tert-butyl ether (ETBE).....	637-92-3	5,243
Ethyl butyl ketone .....	106-35-4	4,916
Ethyl chloride (Chloroethane).....	75-00-3	6,000
Ethyl cyanoacrylate .....	7085-85-0	241
Ethylene chlorohydrin.....	107-07-3	1,077
Ethylenediamine.....	107-15-3	5,783
Ethylene glycol vapor and aerosol .....	107-21-1	6,000
Ethylene oxide.....	75-21-8	10.1
Ethylene thiourea .....	96-45-7	68.3
Ethylenimine (Aziridine).....	151-56-4	207
Ethyldene norbornene .....	16219-75-3	6,000
N-Ethylmorpholine .....	100-74-3	5,542
Ethyl silicate.....	78-10-4	6,000
Fenamiphos .....	22224-92-6	23.5
Fensulfothion .....	115-90-2	23.5
Fenthion .....	55-38-9	47.1
Fine mineral fibers (includes mineral fiber emissions from facilities manufacturing or processing glass, rock or slag fibers, or other mineral derived fibers, of average diameter 1 micrometer or less).....	2	6,000
Flour dust (inhalable fraction).....	2	118
Fluorides, (inorganics), as F .....	2	588
<sup>3</sup> Fluorine.....	7782-41-4	366
Fonofos .....	944-22-9	23.5
Formaldehyde.....	50-00-0	68.3

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Formamide .....	75-12-7	
Formic acid .....	64-18-6	4,334
Furan .....	110-00-9	2,214
Furfural .....	98-01-1	1.22
Furfuryl alcohol.....	98-00-0	1,849
<sup>3</sup> Germanium tetrahydride .....	7782-65-2	6,000
Glutaraldehyde .....	111-30-8	147
Glycidol.....	556-52-5	67
<sup>5</sup> Glycol ethers .....	2	1.22
Graphite (all forms except graphite fiber) .....	7782-42-5	6,000
<sup>3</sup> Halon-1211 (Bromochlorodifluoromethane) .....	353-59-3	471
<sup>3</sup> Halon-1301 (Bromotrifluoromethane) .....	75-63-8	6,000
<sup>3</sup> Halon-2402 (Dibromotetrafluoroethane) .....	124-73-2	6,000
Heptachlor and heptachlor epoxide .....	76-44-8	11.8
Hexachlorobenzene (HCB) .....	118-74-1	0.471
Hexachlorobutadiene.....	87-68-3	50.2
Hexachlorocyclopentadiene .....	77-47-4	26.2
Hexachloroethane.....	67-72-1	222
Hexachloronaphthalene.....	1335-87-1	47.1
Hexamethyl phosphoramide.....	680-31-9	1.22
Hexamethylene-1,6-diisocyanate (HDI).....	822-06-0	0.888
n-Hexane .....	110-54-3	6,000
1,6- Hexanediamine .....	124-09-4	559
1-Hexene .....	592-41-6	6,000
sec-Hexyl acetate .....	108-84-9	6,000
Hexylene glycol .....	107-41-5	6,000
Hydrazine and hydrazine sulfate .....	302-01-2 <sup>2</sup>	0.181
<sup>3</sup> Hydrochlorofluorocarbon-121 (HCFC-121) .....	2	6,000
<sup>3</sup> Hydrochlorofluorocarbon-122 (HCFC-122) .....	2	6,000

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<sup>3</sup> Hydrochlorofluorocarbon-123 (HCFC-123, R-123) .....	306-83-2 <sup>2</sup>	6,000
<sup>3</sup> Hydrochlorofluorocarbon-124 (HCFC-124, R-124) .....	63938-10-3 <sup>2</sup>	6,000
<sup>3</sup> Hydrochlorofluorocarbon-131 (HCFC-131) .....	<sup>2</sup>	6,000
<sup>3</sup> Hydrochlorofluorocarbon-132b (HCFC-132b) .....	1649-08-7	6,000
<sup>3</sup> Hydrochlorofluorocarbon-133a (HCFC-133a).....	75-88-7	6,000
<sup>3</sup> Hydrochlorofluorocarbon-141b (HCFC-141b, R-141b) .....	1717-00-6	6,000
<sup>3</sup> Hydrochlorofluorocarbon-21 (HCFC-21, Dichlorofluoromethane) .....	75-43-4	6,000
<sup>3</sup> Hydrochlorofluorocarbon-221 (HCFC-221) .....	<sup>2</sup>	6,000
<sup>3</sup> Hydrochlorofluorocarbon-222 (HCFC-222) .....	<sup>2</sup>	6,000
<sup>3</sup> Hydrochlorofluorocarbon-223 (HCFC-223) .....	<sup>2</sup>	6,000
<sup>3</sup> Hydrochlorofluorocarbon-224 (HCFC-224) .....	<sup>2</sup>	6,000
<sup>3</sup> Hydrochlorofluorocarbon-225 ca (HCFC-225ca) .....	422-56-0	6,000
<sup>3</sup> Hydrochlorofluorocarbon-225 cb (HCFC-225cb).....	507-55-1	6,000
<sup>3</sup> Hydrochlorofluorocarbon-226 (HCFC-226) .....	<sup>2</sup>	6,000
<sup>3</sup> Hydrochlorofluorocarbon-231 (HCFC-231) .....	<sup>2</sup>	6,000
<sup>3</sup> Hydrochlorofluorocarbon-232 (HCFC-232) .....	<sup>2</sup>	6,000
<sup>3</sup> Hydrochlorofluorocarbon-233 (HCFC-233) .....	<sup>2</sup>	6,000
<sup>3</sup> Hydrochlorofluorocarbon-234 (HCFC-234) .....	<sup>2</sup>	6,000
<sup>3</sup> Hydrochlorofluorocarbon-235 (HCFC-235) .....	<sup>2</sup>	6,000
<sup>3</sup> Hydrochlorofluorocarbon-241 (HCFC-241) .....	<sup>2</sup>	6,000
<sup>3</sup> Hydrochlorofluorocarbon-242 (HCFC-242) .....	<sup>2</sup>	6,000
<sup>3</sup> Hydrochlorofluorocarbon-243 (HCFC-243) .....	<sup>2</sup>	6,000
<sup>3</sup> Hydrochlorofluorocarbon-244 (HCFC-244) .....	<sup>2</sup>	6,000
<sup>3</sup> Hydrochlorofluorocarbon-251 (HCFC-251) .....	<sup>2</sup>	6,000
<sup>3</sup> Hydrochlorofluorocarbon-252 (HCFC-252) .....	<sup>2</sup>	6,000
<sup>3</sup> Hydrochlorofluorocarbon-253 (HCFC-253) .....	<sup>2</sup>	6,000
<sup>3</sup> Hydrochlorofluorocarbon-261 (HCFC-261) .....	<sup>2</sup>	6,000
<sup>3</sup> Hydrochlorofluorocarbon-262 (HCFC-262) .....	<sup>2</sup>	6,000
<sup>3</sup> Hydrochlorofluorocarbon-271 (HCFC-271) .....	<sup>2</sup>	6,000

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<sup>3</sup> Hydrochlorofluorocarbon-31 (HCFC-31; R-31; Chlorofluoromethane).....	593-70-4	
Hydrogenated terphenyls.....	61788-32-7	6,000
<sup>3</sup> Hydrogen bromide .....	10035-10-6	1,160
<sup>3</sup> Hydrogen chloride (Hydrochloric acid; Muriatic acid).....	7647-01-0	3,247
<sup>3</sup> Hydrogen cyanide .....	74-90-8	1,777
<sup>3</sup> Hydrogen fluoride (Hydrofluoric acid) .....	7664-39-3	1,699
<sup>3</sup> Hydrogen peroxide.....	7722-84-1	803
<sup>3</sup> Hydrogen sulfide.....	7783-06-4	327
Hydroquinone.....	123-31-9	3,279
2-Hydroxypropyl acrylate .....	999-61-1	471
Indeno(1,2,3-cd)pyrene .....	193-39-5	626
Indium .....	7440-74-6	8.08
<sup>3</sup> Iodine .....	7553-56-2	23.5
Iron dextran complex .....	9004-66-4	340
Iron oxide dust and fume, as Fe.....	1309-37-1	1.22
Iron salts, soluble, as Fe .....	2	1,176
Isobutyl acetate.....	110-19-0	235
Isobutyl alcohol.....	78-83-1	100,000
Isooctyl alcohol .....	26952-21-6	6,000
Isophorone.....	78-59-1	6,000
Isophorone diisocyanate .....	4098-71-9	6,000
Isoprene.....	78-79-5	10.7
<sup>4</sup> 2-Isopropoxyethanol .....	109-59-1	1.22
Isopropylamine.....	75-31-0	6,000
Isopropyl glycidyl ether .....	4016-14-2	2,843
N-Isopropylaniline .....	768-52-5	6,000
Kaolin.....	1332-58-7	2,602
Kepone (Chlordecone) .....	143-50-0	471
Ketene .....	463-51-4	0.193
		202

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Lead Acetate, as Pb .....	301-04-2	
Lead compounds .....	7439-92-1 <sup>2</sup>	11.1
Lead Phosphate, as Pb .....	7446-27-7	400
Lindane and other hexachlorocyclohexane isomers .....	58-89-9 <sup>2</sup>	74
Maleic anhydride.....	108-31-6	2.87
Manganese, dust and inorganic compounds, as Mn .....	7439-96-5 <sup>2</sup>	94.4
Melphalan.....	148-82-3	47.1
<sup>3</sup> Mercury, as Hg, alkyl compounds .....	7439-97-6 <sup>2</sup>	0.024
<sup>3</sup> Mercury, as Hg, aryl compounds .....	7439-97-6 <sup>2</sup>	2.35
<sup>3</sup> Mercury, as Hg, inorganic forms including metallic mercury, ..	7439-97-6 <sup>2</sup>	23.5
Mesityl oxide.....	141-79-7	5.88
Mestranol .....	72-33-3	6,000
Methacrylic acid.....	79-41-4	1.22
Methanol .....	67-56-1	6,000
Methomyl .....	16752-77-5	6,000
Methoxychlor .....	72-43-5	588
<sup>4</sup> 2-Methoxyethanol (Methyl Cellosolve; EGME).....	109-86-4	6,000
<sup>4</sup> 2-Methoxyethyl acetate (MethylCellosolve acetate; EGMEA)..	110-49-6	3,661
4-Methoxyphenol .....	150-76-5	5,684
<sup>3</sup> Methyl chloroform (1,1,1-Trichloroethane; TCA) .....	71-55-6	1,176
Methyl ethyl ketone (2-Butanone; MEK).....	78-93-3	6,000
Methyl acetate .....	79-20-9	6,000
Methyl acetylene .....	100,000	100,000
Methyl acrylate.....	74-99-7	100,000
Methylacrylonitrile.....	96-33-3	1,657
Methylamine .....	126-98-7	646
Methyl n-amyl ketone .....	74-89-5	1,494
N-Methyl aniline .....	110-43-0	6,000
Methyl bromide (Bromomethane) .....	100-61-8	516
	74-83-9	444

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Methyl n-butyl ketone .....	591-78-6	
Methyl chloride (Chloromethane) .....	74-87-3	4,819
5-Methyl chrysene .....	3697-24-3	6,000
Methyl 2-cyanoacrylate .....	137-05-3	0.808
Methylcyclohexanol .....	25639-42-3	214
o-Methylcyclohexanone .....	583-60-8	6,000
Methyl demeton .....	8022-00-2	6,000
Methylene bisphenyl isocyanate (Methylene diphenyl isocyanate; MDI) .....	101-68-8	118
<sup>3</sup> Methylene chloride (Dichloromethane) .....	75-09-2	12
4,4'-Methylene bis(2-chloroaniline) (MOCA) .....	101-14-4	1,890
Methylene bis(4-cyclohexylisocyanate) .....	5124-30-1	2.07
4,4'-Methylenedianiline (and dihydrochloride) .....	101-77-9 <sup>2</sup>	12.6
Methyl ethyl ketone peroxide .....	1338-23-4	1.93
Methyl formate .....	107-31-3	472
Methyl hydrazine .....	60-34-4	6,000
Methyl iodide (Iodomethane) .....	74-88-4	4.43
Methyl isoamyl ketone .....	110-12-3	2,732
Methyl isobutyl carbinol .....	108-11-2	6,000
Methyl isobutyl ketone (MIBK; Hexone) .....	108-10-1	6,000
Methyl isocyanate .....	624-83-9	11
Methyl methacrylate .....	80-62-6	6,000
N-Methyl-N'-nitro-N-nitrosoguanidine (MNNG) .....	70-25-7	0.37
Methyl parathion .....	298-00-0	47.1
$\alpha$ -Methyl styrene .....	98-83-9	6,000
Methyl tert-butyl ether (MTBE) .....	1634-04-4	6,000
Metribuzin .....	21087-64-9	1,176
Mevinphos (Phosdrin) .....	7786-34-7	21.2
Mirex .....	2385-85-5	0.174
Molybdenum, as Mo, metal and insoluble compounds .....	7439-98-7 <sup>2</sup>	2,353

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Molybdenum, as Mo, soluble compounds.....	7439-98-7 <sup>2</sup>	1,176
Monocrotophos .....	6923-22-4	58.8
Morpholine.....	110-91-8	6,000
Mustard gas.....	505-60-2	1.22
Myleran (1,4-Butanediol dimethanesulphonate; Busulphan) .....	55-98-1	1.22
Naled .....	300-76-5	706
Naphthalene .....	91-20-3	6,000
2-Naphthylamine.....	91-59-8	1.22
Nickel and compounds, as Ni.....	7440-02-0 <sup>2</sup>	3.42
Nickel carbonyl, as Ni.....	13463-39-3	3.42
Nickel subsulfide, as Ni .....	12035-72-2	1.85
Nitric acid.....	7697-37-2	1,213
Nitrilotriacetic acid.....	139-13-9	592
p-Nitroaniline.....	100-01-6	706
Nitrobenzene .....	98-95-3	1,185
4-Nitrobiphenyl .....	92-93-3	6,000
p-Nitrochlorobenzene.....	100-00-5	152
Nitroethane.....	79-24-3	6,000
Nitrogen mustards (2,2'-Dichloro-N-methyldiethylamine) .....	51-75-2	1.22
<sup>3</sup> Nitrogen oxides.....	2	10,000
Nitromethane.....	75-52-5	6,000
4-Nitrophenol .....	100-02-7	6,000
1-Nitropropane .....	108-03-2	6,000
2-Nitropropane .....	79-46-9	1.22
1-Nitropyrene .....	5522-43-0	8.08
N-Nitrosodi-n-butylamine .....	924-16-3	0.555
N-Nitrosodiethanolamine .....	1116-54-7	1.11
N-Nitrosodiethylamine .....	55-18-5	0.0207
N-Nitrosodimethylamine .....	62-75-9	0.0635

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N-Nitrosodi-n-propylamine .....	621-64-7	
N-Nitroso-N-ethylurea .....	759-73-9	0.444
N-Nitroso-N-methylurea .....	684-93-5	0.115
N-Nitrosomethylvinylamine .....	4549-40-0	0.0261
N-Nitrosomorpholine .....	59-89-2	1.22
N'-Nitrosonornicotine .....	16543-55-8	0.468
N-Nitrosopiperidine .....	100-75-4	1.22
N-Nitrosopyrrolidine .....	930-55-2	0.329
N-Nitrososarcosine .....	13256-22-9	1.46
Nitrotoluene, mixtures and isomers .....	88-72-2 <sup>2</sup>	2,639
Nitrous oxide .....	10024-97-2	6,000
Octachloronaphthalene .....	2234-13-1	23.5
Octachlorostyrene .....	29082-74-4	10
Octane (all isomers) .....	111-65-9 <sup>2</sup>	100,000
Oestradiol (Estradiol) .....	50-28-2	0.0808
Oxalic acid .....	144-62-7	235
p,p'-Oxybis (benzenesulfonyl hydrazide) .....	80-51-3	23.5
Paraquat (respirable sizes) (Paraquat chloride) .....	1910-42-5 <sup>2</sup>	23.5
Parathion .....	56-38-2	23.5
<sup>3</sup> Particulate matter .....	<sup>2</sup>	<u>10,000</u>
Pentachlorobenzene .....	608-93-5	10
Pentachloronaphthalene .....	1321-64-8	118
Pentachloronitrobenzene (Quintobenzene; PCNB) .....	82-68-8	118
Pentachlorophenol (PCP) .....	87-86-5	118
Pentane, all isomers .....	78-78-4 <sup>*2</sup>	100,000
Pentyl Acetate (mixtures and isomers) .....	628-63-7 <sup>2</sup>	6,000
<sup>3</sup> Perchloroethylene (Tetrachloroethylene) .....	127-18-4	151
Perchloromethyl mercaptan .....	594-42-3	179
Perfluoroisobutylene .....	382-21-8	26.7

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Persulfates (Ammonium, Potassium, Sodium).....	7727-54-0 <sup>2</sup>	23.5
Perylene.....	198-55-0	10
Phenazopyridine and phenazopyridine hydrochloride.....	136-40-3 <sup>2</sup>	18.1
Phenol .....	108-95-2	4,528
Phenolphthalein.....	77-09-8	1.22
Phenothiazine.....	92-84-2	1,176
Phenylenediamine (mixtures and isomers).....	106-50-3	23.5
Phenyl ether vapor.....	101-84-8	1,638
Phenyl glycidyl ether (PGE).....	122-60-1	145
Phenylhydrazine .....	100-63-0	104
Phenyl mercaptan .....	108-98-5	530
Phentyoin and sodium salt of phentyoin.....	57-41-0 <sup>2</sup>	1.22
Phorate .....	298-02-2	11.8
Phosgene .....	75-44-5	95.2
<sup>3</sup> Phosphine.....	7803-51-2	98.2
Phosphoric acid .....	7664-38-2	235
Phosphorus (yellow).....	7723-14-0	23.8
Phosphorus oxychloride .....	10025-87-3	148
<sup>3</sup> Phosphorus pentachloride .....	10026-13-8	200
Phosphorus pentasulfide.....	1314-80-3	235
<sup>3</sup> Phosphorus trichloride .....	7719-12-2	264
Phthalic anhydride.....	85-44-9	1,425
Picric acid.....	88-89-1	23.5
Pindone .....	83-26-1	23.5
Platinum (metal).....	7440-06-4	235
Platinum, soluble salts, as Pt .....	7440-06-4 <sup>2</sup>	0.471
<u>PM10</u> .....	<sup>2</sup>	<u>10,000</u>
Polybrominated biphenyls (PBBs; Bromodiphenyls).....	59536-65-1 <sup>2</sup>	0.103
Polychlorinated biphenyls (PCBs; Chlorodiphenyls; Arochlor)..	1336-36-3 <sup>2</sup>	0.05

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Polycyclic organic matter (POM).....	2	
Potassium hydroxide .....	1310-58-3	125
		654
<u><sup>3</sup>Primary particulate matter.....</u>	<u><sup>2</sup></u>	<u><sup>10,000</sup></u>
<u>Primary PM<sub>2.5</sub>. Also report filterable and condensable components.</u> .....	<u><sup>2</sup></u>	<u><sup>10,000</sup></u>
<u>Primary PM<sub>10</sub>. Also report filterable and condensable components.</u> .....	<u><sup>2</sup></u>	<u><sup>10,000</sup></u>
Procarbazine and procarbazine hydrochloride.....	366-70-1 <sup>2</sup>	0.222
1,3-Propane sultone.....	1120-71-4	1.29
Propargyl alcohol .....	107-19-7	539
β-Propiolactone .....	57-57-8	0.222
Propionaldehyde.....	123-38-6	6,000
Propionic acid.....	79-09-4	6,000
Propoxur (Baygon).....	114-26-1	118
Propylene dichloride (1,2-Dichloropropane).....	78-87-5	355
Propylene glycol monomethyl ether (PGME) .....	07-98-2	6,000
Propylene oxide.....	75-56-9	240
Propylenimine (2-Methyl aziridine; Propylene imine) .....	75-55-8	1.22
Propylthiouracil.....	51-52-5	3.06
Pyrethrum.....	8003-34-7	1,176
Pyridine .....	110-86-1	3,373
Quinoline.....	91-22-5	6,000
Quinone.....	106-51-4	104
Resorcinol .....	108-46-3	6,000
Rhodium (metal) and insoluble compounds, as Rh .....	7440-16-6 <sup>2</sup>	235
Rhodium, soluble compounds, as Rh .....	7440-16-6 <sup>2</sup>	2.35
Rotenone (commercial) .....	83-79-4	1,176
Safrole .....	94-59-7	14.1
Selenium and compounds, as Se .....	7782-49-2 <sup>2</sup>	47.1
<sup>3</sup> Silicon tetrahydride (Silane) .....	7803-62-5	1,545
Sodium Azide, as sodium azide or hydrazoic acid vapor .....	26628-22-8	95.7

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Sodium bisulfite .....	7631-90-5	
Sodium fluoroacetate.....	62-74-8	1,176
Sodium hydroxide .....	1310-73-2	11.8
Sodium metabisulfite.....	7681-57-4	654
<sup>3</sup> Stibine (Antimony hydride) .....	7803-52-3	1,176
Stoddard solvent (Mineral spirits).....	8052-41-3	120
Streptozotocin .....	18883-66-4	6,000
Strong inorganic acid mists containing sulfuric acid (>35% by weight) .....	7664-93-9 <sup>2</sup>	0.0287
Strychnine .....	57-24-9	1.22
Styrene oxide.....	96-09-3	35.3
Styrene, monomer .....	100-42-5	6,000
Sulfometuron methyl.....	74222-97-2	6,000
Sulfotep (TEDP).....	3689-24-5	1,176
<sup>3</sup> Sulfur dioxide .....	7446-09-5	47.1
Sulfur monochloride.....	10025-67-9	10,000
<sup>3</sup> Sulfur tetrafluoride.....	7783-60-0	1,806
Sulfuric acid .....	7664-93-9	145
<sup>3</sup> Sulfuryl fluoride.....	2699-79-8	235
Sulprofos .....	35400-43-2	4,911
Talc, containing no asbestos fibers.....	14807-96-6	235
Tantalum, metal and oxide dusts, as Ta.....	7440-25-7	471
Tellurium and compounds, except hydrogen telluride, as Te .....	13494-80-9 <sup>2</sup>	1,176
TEPP .....	107-49-3	23.5
Terphenyls.....	26140-60-3 <sup>2</sup>	1,635
1,2,3,4-Tetrachlorobenzene.....	634-66-2	10
1,2,4,5-Tetrachlorobenzene.....	95-94-3	10
2,3,7,8-Tetrachlorodibenzo-p-dioxin (Dioxin; 2,3,7,8-TCDD), as dioxin equivalents.....	1746-01-6 <sup>2</sup>	0.00005
1,1,2,2-Tetrachloroethane.....	79-34-5	1,615
Tetrachloronaphthalene.....	1335-88-2	471

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1,1,1,2-Tetrafluoroethane .....	811-97-2	
Tetrafluoroethylene .....	116-14-3	6,000
Tetrahydrofuran .....	109-99-9	1.22
Tetranitromethane .....	509-14-8	6,000
Thallium, elemental and soluble compounds, as Tl .....	7440-28-0 <sup>2</sup>	1.22
<sup>3</sup> Thionyl chloride .....	7719-09-7	23.5
Thiourea .....	62-56-6	1,592
Thiram .....	137-26-8	42.3
Tin organic compounds, as Sn .....	7440-31-5 <sup>2</sup>	23.5
Tin, metal oxides and inorganic compounds, except tin hydride, as Sn .....	7440-31-5 <sup>2</sup>	471
Titanium tetrachloride .....	7550-45-0	6,000
Toluene (Toluol) .....	108-88-3	6,000
2,4-/2,6-Toluene diisocyanate (mixtures and isomers) (TDI) .....	584-84-9 <sup>2</sup>	6.22
m- and p-Toluidine .....	108-44-1	2,062
o-Toluidine and o-toluidine hydrochloride and mixed isomers ...	95-53-4 <sup>2</sup>	17.4
<sup>3</sup> Total reduced sulfur and reduced sulfur compounds .....	<sup>2</sup>	10,000
Tributyl phosphate .....	126-73-8	513
Tributyl tin .....	56-35-9	10
1,2,4-Trichlorobenzene .....	120-82-1	6,000
1,1,2-Trichloroethane .....	79-00-5	6,000
Trichloroethylene (Trichloroethene) .....	79-01-6	444
Trichloronaphthalene .....	1321-65-9	1,176
2,4,5-Trichlorophenol .....	95-95-4	6,000
2,4,6-Trichlorophenol .....	88-06-2	287
1,2,3-Trichloropropane .....	96-18-4	1.22
Triethanolamine .....	102-71-6	1,176
Triethylamine .....	121-44-8	974
Trifluralin .....	1582-09-8	6,000
1,3,5-Triglycidyl-s-triazinetrione .....	2451-62-9	11.8

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Trimellitic anhydride.....	552-30-7	
Trimethyl benzene, (mixtures and isomers) .....	25551-13-7 <sup>2</sup>	13.1
Trimethylamine .....	75-50-3	6,000
2,2,4-Trimethylpentane .....	540-84-1	2,844
2,4,6-Trinitrotoluene (TNT) .....	118-96-7	6,000
Triorthocresyl phosphate .....	78-30-8	23.5
Triphenyl phosphate .....	115-86-6	23.5
Tris(1-aziridinyl)phosphine sulfide (Thiotepa) .....	52-24-4	706
Tris(2,3-dibromopropyl phosphate).....	126-72-7	0.261
Tungsten - metal and insoluble compounds, as W .....	7440-33-7 <sup>2</sup>	1,176
Tungsten - soluble compounds, as W .....	7440-33-7 <sup>2</sup>	235
Uranium (natural), soluble and insoluble compounds, as U .....	7440-61-1 <sup>2</sup>	47.1
Urethane (Ethyl carbamate).....	51-79-6	3.06
n-Valeraldehyde .....	110-62-3	6,000
Vanadium pentoxide, as V <sub>2</sub> O <sub>5</sub> , respirable dust and fume .....	1314-62-1	11.8
Vinyl acetate .....	108-05-4	6,000
Vinyl bromide .....	593-60-2	515
Vinyl chloride.....	75-01-4	101
Vinyl cyclohexene dioxide (4-Vinyl-1-cyclohexene diepoxyde) .	106-87-6	1.22
4-Vinyl cyclohexene .....	100-40-3	104
Vinyl fluoride.....	75-02-5	443
Vinylidene chloride (1,1-Dichloroethylene).....	75-35-4	4,665
Vinylidine fluoride .....	75-38-7	100,000
Vinyl toluene.....	25013-15-4	6,000
3,6-Volatile organic compounds (Reactive organic gases).....	2	6,000
Warfarin .....	81-81-2	23.5
Xylene (mixtures and isomers) (Xylool; Dimethyl Benzene) .....	1330-20-7 <sup>2</sup>	6,000
m-Xylene- $\alpha,\alpha'$ -diamine .....	1477-55-0	32.7
Xylylidine (mixtures and isomers) .....	1300-73-8 <sup>2</sup>	583

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Yttrium metal and compounds, as Y .....	7440-65-5 <sup>2</sup>
Zeolites (Erionite) .....	66733-21-9 235
Zirconium and compounds, as Zr .....	7440-67-7 <sup>2</sup> 1.22
	1,176

<sup>1</sup>Chemical Abstract Service or CAS number refers to the unique chemical abstracts service registry number assigned to a specific chemical, isomer or mixture of chemicals or isomers and recorded in the CAS chemical registry system by the Chemical Abstracts Service, PO Box 3012, Columbus, OH 43210, phone 1-614-447-3600.

<sup>2</sup>Indicates contaminants for which multiple CAS numbers may apply. For contaminants listed as a metal and its compounds, the given CAS number refers to the metal.

<sup>3</sup>Indicates contaminants for which a fee will be assessed under s. NR 410.04. Emissions of all compounds listed in s. NR 400.02(162)(b) shall be included when determining fees for volatile organic compounds.

<sup>4</sup>Indicates compounds included in the glycol ethers group. In addition to being reported individually when a compound's emissions are above the reporting level, the emissions of these compounds are included in the glycol ethers emission total reported along with emissions of the many other such compounds not listed individually by name.

<sup>5</sup>Glycol ethers include mono- and di-ethers of ethylene glycol, diethylene glycol, and triethylene glycol, R-(OCH<sub>2</sub>CH<sub>2</sub>)<sub>n</sub>-OR'

where:

n=1, 2 or 3

R=alkyl C7 or less or

R=phenyl or alkyl substituted phenyl

R'=H or alkyl C7 or less or OR' consists of carboxylic acid ester, sulfate, phosphate, nitrate or sulfonate.

<sup>6</sup>Organic compounds that are not VOC and should not be considered or included here are specified in s. NR 400.02 (162) (a). Emissions of organic compounds specified in s. NR 400.02 (162) (b) shall be considered to determine if the reporting level for VOC is exceeded. Emissions of these compounds, however, shall be reported separately as the individual compound if the reporting level for VOC is exceeded.

<sup>7</sup>Any amount of emissions of this compound shall be reported if the reporting level for VOC emissions is exceeded. See footnote 6 for how to determine if the reporting level for VOC emissions is exceeded.

## SECTION 14. NR 438.03 (1) (c), (d), (2), (3), (4) and (5) (a) are amended to read:

**NR 438.03 (1) (c)** Notwithstanding par. (a), the department may require any facility to submit an ~~emission~~emissions inventory report of its annual, actual and maximum theoretical air contaminant emissions.

(d) Any facility that has emission reduction credits shall report the credits separately as ~~actual emissions on the annual emission inventory report~~.

**(2) REPORTING DEADLINE.** ~~Reports~~Emissions inventories required under this section shall be submitted by March 1 of each year for air contaminants emitted during the preceding year. Persons unable to submit reports by March 1 may, upon request to the department, be granted an extension until March 15 for submission of the reports if the department determines that an extension is reasonable under the circumstances. Through March 1, persons may be granted a 2-week submittal extension ending on March 15 requested by email, mail, or other manner prescribed, provided the extension is considered reasonable under the circumstances by the department.

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**(3) PORTABLE SOURCES.** The owner or operator of a portable source shall file ~~one emission~~  
~~an emissions inventory report~~ covering all operations at all locations in the state during the  
previous year.

**(4) REQUIRED RECORDS.** ~~Owners and operators~~An owner or operator of facilitiesa facility required to file ~~emission inventory reports~~emissions inventories shall keep accurate and reliable records sufficient to enable verification of the ~~reports~~emissions inventories by the department. Records shall include data on fuel composition and consumption, quantities of raw materials handled ~~which~~that contribute to emissions, quantities of wastes incinerated, continuous emissions monitoring data and audits, safety data sheets, technical data sheets, and lab testing results, and any results of stack or performance tests together with the names of persons or firms responsible for each test, if applicable. Records shall be retained for 5 years following the year in which the ~~emission~~emissions inventory ~~report~~ is submitted.

**(5) EMISSION EMISSIONS INVENTORY AND CERTIFICATION.** (a) Based on the throughput or emissions information submitted ~~pursuant to ss.~~ ~~NR 438.03~~under this section and s. ~~NR~~ 438.04, the department shall determine each facility's annual actual emissions and typical ozone season day emissions based on emission factors contained in Compilation of Air Pollutant Emission Factors, AP-42, Volume 1: Stationary Point and Area Sources, USEPA-OAQPS, ~~January 1995~~, as incorporated by reference ~~in~~s. NR 484.05 (8), or in the ~~FIRE database, USEPA-~~ OAQPS, ~~incorporated by reference in s.~~ ~~NR~~ 484.06 (4) (a) EPA's online database of emissions factors for criteria and hazardous air pollutants. Other emission factors or methods, including, ~~but not limited to~~, mass balance or other use reporting, consumption and analytical methodologies, or continuous emissions monitoring data, if applicable, may be used by the department.

**SECTION 15. NR 438.03 (5) (a) (Note) is created to read:**

**NR 438.03 (5) (a)** Note: The EPA's WebFIRE database of emissions factors for criteria and hazardous air pollutants is available at <https://cfpub.epa.gov/webfire/>.

**SECTION 16. NR 438.03 (5) (b), (c), and (6) are amended to read:**

**NR 438.03 (5) (b)** The actual annual emissions determined by the department under par. (a) shall constitute the department's annual ~~emission~~emissions inventory.

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(c) By May 31 of each year, the department shall send each owner or operator of a facility ~~whichthat~~ is required to file an ~~emission inventory report a summary from the department's annual emission inventory emissions inventory a notification that an emissions inventory summary report~~ of the air contaminants emitted by the facility for the previous year ~~has been created by the department~~. The owner or operator of a facility required to obtain an air pollution control permit under s. 285.60, Stats., and ch. NR 405, 406, 407, or 408, or ~~whichthat~~ emits volatile organic compounds or nitrogen oxides in an ozone nonattainment area, shall, by June 30 of each year, send a written certification to the department that ~~the summary of its emissions inventory summary report~~ is correct. The certification shall contain the name, title, signature and telephone number of the ~~certifier responsible official~~, the date of certification, and a statement that the information contained in the emissions inventory summary report is accurate to the best knowledge of the owner or operator of that facility.

(6) DISPUTED EMISSIONS. Any facility that disputes the emissions inventory summary supplied report created by the department under sub. (5) (c) may request, in writing, that the department review its emissions inventory summary report. The department shall review and supply to the facility, within 14 calendar days of receipt of the facility's written request, information used to prepare the ~~emission emissions~~ inventory ~~and~~ summary report for that facility. If the facility continues to dispute the emissions inventory summary report, it shall supply to the department, within 14 calendar days of receipt of the department's information, the reasons it disputes the summary report. The facility shall be notified within 7 calendar days of receipt of this information of the department's decision on whether to adjust the ~~emission emissions~~ inventory ~~and~~ summary. If the facility continues to dispute the emissions inventory summary report, it may appeal the department's final decision pursuant to state law. The responsible official for the facility shall certify any emissions not in dispute by June 30 of each year.

**SECTION 17. NR 438.04 (1) is amended to read:**

**NR 438.04 Content of ~~emission inventory reports~~ emissions inventories.** (1) GENERAL INSTRUCTIONS. ~~Emission inventory reports~~ Emissions inventories required under this chapter shall be submitted ~~on forms or other media supplied in the manner prescribed~~ by the department. ~~Emission inventory reports~~ Emissions inventories submitted by facilities shall contain the

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information specified ~~in~~under s. NR 438.03 (1) and (3) and this section. Emissions shall be reported separately for each ~~sourcee~~process or group of similar ~~sources~~processes at each facility.

**SECTION 18. NR 438.04 (1) (Note) is repealed.**

**SECTION 19. NR 438.04 (2) (intro.) and (b) are amended to read:**

**NR 438.04 (2)** FACILITY IDENTIFICATION AND GENERAL INFORMATION. For all facilities the ~~emission inventory report~~emissions inventories shall include:

- (b) The location address of the facility.

**SECTION 20. NR 438.04 (2) (c) is repealed.**

**SECTION 21. NR 438.04 (2) (d) is repealed and recreated to read:**

**NR 438.04 (2) (d)** The facility's applicable NAICS code and SIC code.

**SECTION 22. NR 438.04 (2) (e) is repealed.**

**SECTION 23. NR 438.04 (2) (f) is amended to read:**

**NR 438.04 (2) (f)** The name ~~and~~, telephone number, mailing address, and email address of the individual to be contacted regarding the ~~emission~~emissions inventory ~~report~~.

**SECTION 24. NR 438.04 (2) (g) and (h) are repealed.**

**SECTION 25. NR 438.04 (3), (4) and (5) are repealed and recreated to read:**

**NR 438.04 (3)** EMISSIONS-GENERATING UNITS. For each emissions-generating unit, the emissions inventory shall include all of the following:

- (a) Unit device identifier.
- (b) Unit device type code.
- (c) Design capacity, if applicable for the unit device type.
- (d) For each emissions-generating process, all of the following:
  1. Process identifier.

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2. Process type code.
  3. Source classification code, except for processes at tanks.
  4. Throughput material type.
  5. Annual throughput.
  6. Maximum and average hourly throughput.
  7. The normal operation schedule in hours per day, days per week, days per year, and percentages of quarterly activity.
  8. The average and maximum sulfur content in percent by weight per fuel, if applicable for the throughput material type.
  9. The average and maximum ash content in percent by weight per fuel, if applicable for the throughput material type.
  10. For each emission factor, all of the following:
    - a. Pollutant.
    - b. Value or formula.
    - c. Units.
    - d. Origin.
  11. Annual emissions by pollutant.
  12. The fractions of emissions in percent that flow to connected controlling or discharging processes and the associated unit device and process identifiers.
  13. Annual emissions measured by a continuous emissions monitor and pollutant, if applicable.
- (4) EMISSIONS-CONTROLLING UNITS.** For each emissions-controlling unit, the emissions inventory shall include all of the following:
- (a) Unit device identifier.
  - (b) Unit device type code.
  - (c) For each controlling process, all of the following:
    1. Process identifier.
    2. Process type code.
    3. The normal operation schedule in hours per day, days per week, days per year, and percentages of quarterly activity.

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4. Control efficiencies by pollutant in percent.
5. The fractions of emissions in percent that flow to connected controlling or discharging processes and the associated unit device and process identifiers.

(d) For each emissions-generating process, all of the following:

1. Process identifier.
2. Process type code.
3. Source classification code.
4. Throughput material type.
5. Annual throughput.
6. Maximum and average hourly throughput.
7. The normal operation schedule in hours per day, days per week, days per year, and percentages of quarterly activity.
8. The average and maximum sulfur content in percent by weight per fuel, if applicable for the throughput material type.
9. The average and maximum ash content in percent by weight per fuel, if applicable for the throughput material type.
10. For each emission factor, all of the following:
  - a. Pollutant.
  - b. Value or formula.
  - c. Units.
  - d. Origin.

11. Annual emissions by pollutant.

12. The fractions of emissions that flow to connected controlling or discharging processes and the associated unit device and process identifiers.

13. Annual emissions measured by a continuous emissions monitor and pollutant, if applicable.

**(5) EMISSIONS-DISCHARGING UNITS OR STACKS.** For each stack, the emissions inventory shall include all of the following:

- (a) Unit device identifier.
- (b) Unit device type code.

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- (c) Stack height.
- (d) Stack inside top diameter.
- (e) Average exit temperature.
- (f) Average exit velocity.
- (g) For the discharging process at the stack, all of the following:
  - 1. Process identifier.
  - 2. Process type code.
  - 3. The normal operation schedule in hours per day, days per week, days per year, and percentages of quarterly activity.

**SECTION 26. NR 438.04 (6) is repealed.****SECTION 27. NR 484.06 (4) Table 4D Row (a) is amended to read:**


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**Table 4D  
U.S. Environmental Protection Agency Document References**

<b>Document Number</b>	<b>Title</b>	<b>Incorporated by Reference For</b>
(a) EPA, OAQPS, FIRE 6.23	Factor Information Retrieval Data System, Version 6.23	NR 437.04 (2) (a) 22. <del>NR 438.02 (2)</del> <del>NR 438.03 (5) (a)</del>

**SECTION 28. EFFECTIVE DATE.** This rule takes effect on the first day of the month following publication in the Wisconsin Administrative Register as provided in s. 227.22 (2) (intro.), Stats.

**SECTION 29. BOARD ADOPTION.** This rule was approved and adopted by the State of Wisconsin Natural Resources Board on [DATE].

Dated at Madison, Wisconsin \_\_\_\_\_.

STATE OF WISCONSIN  
DEPARTMENT OF NATURAL RESOURCES

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BY \_\_\_\_\_

For Preston D. Cole, Secretary

(SEAL)